Title (en)
WAVELENGTH LOCKING DEVICE AND METHOD

Title (de)
WELLENLÄNGENKOPPLUNGSVORRICHTUNG UND -VERFAHREN

Title (fr)
DISPOSITIF ET PROCÉDÉ DE VERROUILLAGE DE LONGUEUR D'ONDE

Publication
EP 3723301 A1 20201014 (EN)

Application
EP 19738615 A 20190108

Priority
- CN 201810021055 A 20180110
- CN 2019070843 W 20190108

Abstract (en)
Provided is a wavelength locking device, including a wavelength identifier detector configured to receive an optical multiplexing sampling signal, and determine an optical signal carrying a wavelength identifier as an optical signal to be wavelength-locked; a tunable bandpass filter configured to select, according to wavelength information of at least one optical signal to be wavelength-locked, the at least one optical signal to be wavelength-locked, and output the at least one optical signal to be wavelength-locked; a wavelength locker configured to acquire wavelength deviation information of each optical signal to be wavelength-locked; and an associated signal generator configured to generate, according to wavelength deviation information corresponding to the associated signal generator, an associated signal of an optical signal to be wavelength-locked corresponding to the associated signal generator, so that the obtained associated signal is modulated onto a local service signal corresponding to the optical signal to be wavelength-locked corresponding to the associated signal generator. Further provided is a wavelength locking method.

IPC 8 full level
H04B 10/00 (2013.01)

CPC (source: CN EP KR)
H01S 3/1106 (2013.01 - CN KR); **H04B 10/506** (2013.01 - KR); **H04B 10/572** (2013.01 - CN KR); **H04J 14/0258** (2013.01 - CN EP KR); **H04J 14/0273** (2013.01 - EP)

Citation (search report)
See references of WO 2019137371A1

Cited by
US11770192B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3723301 A1 20201014; CN 110022186 A 20190716; JP 2021510256 A 20210415; JP 7173470 B2 20221116; KR 102437736 B1 20220829; KR 20200097780 A 20200819; WO 2019137371 A1 20190718

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